REMARKS

A review of the claims indicates that:

- A) Claims 2—12, 14—19, 21—33 and 35 remain in their original form.
- B) Claims 1, 13, 20 and 34 are currently amended.

In view of the following remarks, Applicant respectfully requests reconsideration of the rejected claims.

35 U.S.C. §112

The Examiner pointed out that claim 13 should depend from claim 7. This change has been made.

35 U.S.C. §102 Rejections

Applicant submits that the Office has failed to establish a *prima facie* case of anticipation and respectfully traverses the Office's rejections. However, before discussing the substance of the Office's rejections, a section entitled "The §102 Standard" is provided and will be used in addressing the Office's rejections.

The §102 Standard

According to the MPEP §2131, a claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference. The identical invention must be shown in as complete detail as is contained in the claim.

Anticipation is a legal term of art. The applicant notes that in order to provide a valid finding of anticipation, several conditions must be met: (i) the

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reference must include every element of the claim within the four corners of the reference (see MPEP §2121); (ii) the elements must be set forth as they are recited in the claim (see MPEP §2131); (iii) the teachings of the reference cannot be modified (see MPEP §706.02, stating that "No question of obviousness is present" in conjunction with anticipation); and (iv) the reference must enable the invention as recited in the claim (see MPEP §2121.01). Additionally, (v) these conditions must be simultaneously satisfied.

The §102 rejection of claims 1—5, 7—10, 14—18, 34 and 35 is believed to be in error. Specifically, the PTO and Federal Circuit provide that §102 anticipation requires that each and every element of the claimed invention be disclosed in a single prior art reference. *In re Spada*, 911 F.2d 705, 15 USPQ2d 1655 (Fed. Cir. 1990). The corollary of this rule is that the absence from a cited §102 reference of any claimed element negates the anticipation. *Kloster Speedsteel AB*, et al. v. Crucible, Inc., et al., 793 F.2d 1565, 230 USPQ 81 (Fed. Cir. 1986).

The applicant notes the requirements of MPEP §2131, which states "to anticipate a claim, the reference must teach every element of the claim." This MPEP section further states that "'A claim is anticipated only if each and every element as set forth in the claim is found, either expressly or inherently described, in a single prior art reference.' *Verdegaal Bros. v. Union Oil Co. of California*, 814 F.2d 628, 631, 2 USPQ2d 1051, 1053 (Fed. Cir. 1987). 'The identical invention must be shown in as complete detail as is contained in the ... claim.' *Richardson v. Suzuki Motor Co.*, 868 F.2d 1226, 1236, 9 USPQ2d 1913, 1920 (Fed. Cir. 1989). The elements

must be arranged as required by the claim, but this is not an ipsissimis verbis test, i.e., identity of terminology is not required. *In re Bond*, 910 F.2d 831, 15 USPQ2d 1566 (Fed. Cir. 1990)."

The Ohno Reference

The Ohno reference detects binary numbers (see 1 in FIG. 1) using a detector 2. The output of the detector is organized in a shift register 3, and then compared to data in ROM 7, which reveals if the detected data is transformable into an absolute position (see column 5, lines 34—43). Using a combination of absolute positions and relative positions (see column 6, lines 19—25) Ohno is able to establish position.

Ohno distinguishes absolute and relative positions in the ROM 7 (see column 5, lines 40—43). A low signal (L) from the ROM on output line 6-4 indicates that the detector did not detect data transformable to an absolute position. Alternatively, if the data is transformable into an absolute position, then a high signal (H) is output to the output line 6-4 (see column 6, lines 2—7).

Thus, Ohno **outputs a single signal**, wherein the single signal may be high or low in response to data, which represents an absolute position or a relative position, respectively.

Traversal of the §102 Rejections

Claims 1—5, 7—10, 14—18, 34 and 35 were rejected under §102 as being anticipated by U.S. Patent No. 5,565,864, hereinafter "Ohno." In response, the Applicant respectfully traverses the rejection.

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Claim 1 recites, as amended, an encoding system for determining position and position changes of a moving member, comprising:

- a sequence of encoder marks forming incremental patterns and at least one index pattern, wherein two subsequent incremental patterns are indicative of an incremental position-change of the moving member and the index pattern is indicative of a reference position of the moving member;
- a sensor arrangement viewing a section of the encoder-mark sequence, the length of which is greater than one position-change increment; and
- an analyzer arranged to analyze an encoder-mark pattern in the viewed section with regard to the incremental patterns and the index pattern and to generate, in response to a pattern match found, an incremental-position-change signal and an index signal.

The Applicant notes that the Ohno reference does not disclose (1) an incremental-position-change signal, and also, (2) an index signal. Instead, Ohno discloses a single signal, wherein H (high voltage) indicates data associated with an absolute position and wherein L (low) indicates data associated with a relative position.

The Patent Office suggests Ohno discloses the aspects recited. The Applicant respectfully disagrees.

Ohno discloses only a single signal line at 6-4, which reflects the output of ROM 7. The output of the signal 6-4 reflects absolute vs. relative.

In contrast, the Applicant recites two signal lines: an incremental-positionchange signal and the index signal. These signals provide information on aspects of index and incremental patterns, which are observed by the sensor.

The Applicant's two signals allow more information to be conveyed than is possible with the single signal line disclosed by Ohno (at line 6-4 from ROM 7). For example, where one signal line is provided (e.g. Ohno) only two states can be

communicated (e.g. H and L) corresponding to absolute and relative. But in the Applicant's recited structure, four states can be conveyed. For example, referring to Fig. 8 (of the Replacement Sheets) we can see that the Incremental Signal can be either 0 or 1, and also the Index Signal can be either 0 or 1. Thus, between the two signals, all combinations (e.g. 00, 01, 10, 11) are possible. (See also Applicant's specification, page 17, line 28 to page 18, line 8.)

Thus, the Applicant's recited incremental-position-change signal and index signal are structurally different from the single signal line 6-4 disclosed by Ohno, and provide a functional advantage not seen by Ohno.

Thus, the Applicant respectfully asserts that Ohno does not disclose the elements recited, and that the §102 rejection of Claim 1 is therefore improper. Accordingly, the Applicant respectfully requests that the §102 rejection of Claim 1 be removed, and that Claim 1 be allowed to issue, as amended.

Claims 2—6 depend from Claim 1 and are allowable due to their dependence from an allowable base claim. These claims are also allowable for their own recited features that, in combination with those recited in Claim 1, are neither disclosed nor suggested in references of record, either singly or in combination with one another.

Claim 7 recites an encoding system for determining position and position changes of a moving member, comprising comprising:

- a row of encoder marks arranged along the moving member in a generally regular manner to provide incremental position-change information;
- at least one index marking in the form of a predefined pattern of encoder marks which represents a disturbance of the regular encodermark arrangement;
- a sensor arrangement viewing a section of the row of encoder marks and arranged to provide a viewed pattern of the encoder-mark section;

 an analyzer arranged to analyze the viewed pattern to generate incremental-position-change signals on the basis of the encoder marks and an index signal in response to a detection of the predefined index mark pattern;

• wherein the incremental-position-change signals are enabled to be generated also in that section of the encoder-mark row in which the regular en-coder-mark arrangement is disturbed by the index marking.

The Applicant notes that the Ohno reference does not disclose (1) an incremental-position-change signal, and also, (2) an index signal. Instead, Ohno discloses a single signal, wherein H (high voltage) indicates data associated with an absolute position and wherein L (low) indicates data associated with a relative position.

The Patent Office suggests Ohno discloses the aspects recited. The Applicant respectfully disagrees.

Ohno discloses only a single signal line at 6-4, which reflects the output of ROM 7. The output of the signal 6-4 reflects absolute vs. relative.

In contrast, the Applicant recites two signal lines: an incremental-positionchange signal and the index signal. These signals provide information on aspects of index and incremental patterns, which are observed by the sensor.

The Applicant's two signals allow more information to be conveyed than is possible with the single signal line disclosed by Ohno (at line 6-4 from ROM 7). For example, where one signal line is provided (e.g. Ohno) only two states can be communicated (e.g. H and L) corresponding to absolute and relative. But in the Applicant's recited structure, four states can be conveyed. For example, referring to Fig. 8 (of the Replacement Sheets) we can see that the Incremental Signal can be either 0 or 1, and also the Index Signal can be either 0 or 1. Thus, between the

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two signals, all combinations (e.g. 00, 01, 10, 11) are possible. (See also Applicant's specification, page 17, line 28 to page 18, line 8.)

Thus, the Applicant's recited incremental-position-change signal and index signal are structurally different from the single signal line 6-4 disclosed by Ohno, and provide a functional advantage not seen by Ohno.

Thus, the Applicant respectfully asserts that Ohno does not disclose the elements recited, and that the §102 rejection of Claim 7 is therefore improper. Accordingly, the Applicant respectfully requests that the §102 rejection of Claim 7 be removed, and that Claim 7 be allowed to issue, as amended.

Claims 8—13 depend from Claim 7 and are allowable due to their dependence from an allowable base claim. These claims are also allowable for their own recited features that, in combination with those recited in Claim 7, are neither disclosed nor suggested in references of record, either singly or in combination with one another.

Claim 14 recites An encoding system for determining position and position changes of a moving member, comprising comprising:

- a row of identical encoder marks forming incremental patterns and at least one index pattern, wherein two subsequent incremental patterns are indicative of an incremental position-change of the moving member and the index pattern is indicative of a reference position of the moving member;
- a sensor arrangement detecting a pattern of a section of the encodermark row; and
- an analyzer arranged to analyze the detected encoder-mark pattern with regard to the incremental patterns and the index pattern and to generate, in response to an incremental-pattern match found, an incrementalposition-change signal and, in response to an index-pattern match found, an index signal.

The Applicant notes that the Ohno reference does not disclose (1) an incremental-position-change signal, and also, (2) an index signal. Instead, Ohno discloses a single signal, wherein H (high voltage) indicates data associated with an absolute position and wherein L (low) indicates data associated with a relative position.

The Patent Office suggests Ohno discloses the aspects recited. The Applicant respectfully disagrees.

Ohno discloses only a single signal line at 6-4, which reflects the output of ROM 7. The output of the signal 6-4 reflects absolute vs. relative.

In contrast, the Applicant recites two signal lines: an incremental-positionchange signal and the index signal. These signals provide information on aspects of index and incremental patterns, which are observed by the sensor.

The Applicant's two signals allow more information to be conveyed than is possible with the single signal line disclosed by Ohno (at line 6-4 from ROM 7). For example, where one signal line is provided (e.g. Ohno) only two states can be communicated (e.g. H and L) corresponding to absolute and relative. But in the Applicant's recited structure, four states can be conveyed. For example, referring to Fig. 8 (of the Replacement Sheets) we can see that the Incremental Signal can be either 0 or 1, and also the Index Signal can be either 0 or 1. Thus, between the two signals, all combinations (e.g. 00, 01, 10, 11) are possible. (See also Applicant's specification, page 17, line 28 to page 18, line 8.)

Thus, the Applicant's recited incremental-position-change signal and index signal are structurally different from the single signal line 6-4 disclosed by Ohno, and provide a functional advantage not seen by Ohno.

Thus, the Applicant respectfully asserts that Ohno does not disclose the elements recited, and that the §102 rejection of Claim 14 is therefore improper. Accordingly, the Applicant respectfully requests that the §102 rejection of Claim 14 be removed, and that Claim 14 be allowed to issue, as amended.

Claims 15—19 depend from Claim 14 and are allowable due to their dependence from an allowable base claim. These claims are also allowable for their own recited features that, in combination with those recited in Claim 14, are neither disclosed nor suggested in references of record, either singly or in combination with one another.

Claim 34 recites a method of determining position and position changes of a moving member using a sequence of encoder marks which forms incremental pat-terns and at least one index pattern, wherein two subsequent incremental patterns are indicative of an incremental position-change of the moving member and the index pattern is indicative of a reference position of the moving member, comprising the steps:

- viewing a section of the encoder-mark sequence, the length of which is greater than one position-change increment;
- analyzing a encoder-mark pattern in the viewed section with regard to the incremental patterns and the index pattern; and
- generating, in response to a pattern match found, an incremental-position-change signal and an index signal.

The Applicant notes that the Ohno reference does not disclose (1) an incremental-position-change signal, and also, (2) an index signal. Instead, Ohno discloses a single signal, wherein H (high voltage) indicates data associated with an absolute position and wherein L (low) indicates data associated with a relative position.

The Patent Office suggests Ohno discloses the aspects recited. The Applicant respectfully disagrees.

Ohno discloses only a single signal line at 6-4, which reflects the output of ROM 7. The output of the signal 6-4 reflects absolute vs. relative.

In contrast, the Applicant recites two signal lines: an incremental-positionchange signal and the index signal. These signals provide information on aspects of index and incremental patterns, which are observed by the sensor.

The Applicant's two signals allow more information to be conveyed than is possible with the single signal line disclosed by Ohno (at line 6-4 from ROM 7). For example, where one signal line is provided (e.g. Ohno) only two states can be communicated (e.g. H and L) corresponding to absolute and relative. But in the Applicant's recited structure, four states can be conveyed. For example, referring to Fig. 8 (of the Replacement Sheets) we can see that the Incremental Signal can be either 0 or 1, and also the Index Signal can be either 0 or 1. Thus, between the two signals, all combinations (e.g. 00, 01, 10, 11) are possible. (See also Applicant's specification, page 17, line 28 to page 18, line 8.)

Thus, the Applicant's recited incremental-position-change signal and index signal are structurally different from the single signal line 6-4 disclosed by Ohno, and provide a functional advantage not seen by Ohno.

Thus, the Applicant respectfully asserts that Ohno does not disclose the elements recited, and that the §102 rejection of Claim 34 is therefore improper. Accordingly, the Applicant respectfully requests that the §102 rejection of Claim 34 be removed, and that Claim 34 be allowed to issue, as amended.

 Claim 35 recites a method of determining position and position changes of a moving member using a row of encoder marks arranged along the moving member in a generally regular manner to provide incremental position-change information; at least one index marking in the form of a predefined pattern of encoder marks which represents a disturbance of the regular encoder-mark arrangement, comprising the steps:

- viewing a section of the row of encoder marks;
- providing a viewed pattern of the encoder-mark section;
- analyzing the viewed pattern to **generate incremental-position-change signals** providing the incremental position-change information on the basis of the encoder marks <u>and</u> **an index signal** in response to a detection of the pre-defined index mark pattern; and
- wherein the incremental-position-change signals are enabled to be generated also in that section of the encoder-mark row in which the regular encoder-mark arrangement is disturbed by the index marking.

The Applicant notes that the Ohno reference does not disclose (1) an incremental-position-change signal, and also, (2) an index signal. Instead, Ohno discloses a single signal, wherein H (high voltage) indicates data associated with an absolute position and wherein L (low) indicates data associated with a relative position.

The Patent Office suggests Ohno discloses the aspects recited. The Applicant respectfully disagrees.

Ohno discloses only a single signal line at 6-4, which reflects the output of ROM 7. The output of the signal 6-4 reflects absolute vs. relative.

In contrast, the Applicant recites two signal lines: an incremental-positionchange signal and the index signal. These signals provide information on aspects of index and incremental patterns, which are observed by the sensor.

The Applicant's two signals allow more information to be conveyed than is possible with the single signal line disclosed by Ohno (at line 6-4 from ROM 7). For example, where one signal line is provided (e.g. Ohno) only two states can be

communicated (e.g. H and L) corresponding to absolute and relative. But in the Applicant's recited structure, four states can be conveyed. For example, referring to Fig. 8 (of the Replacement Sheets) we can see that the Incremental Signal can be either 0 or 1, and also the Index Signal can be either 0 or 1. Thus, between the two signals, all combinations (e.g. 00, 01, 10, 11) are possible. (See also Applicant's specification, page 17, line 28 to page 18, line 8.)

Thus, the Applicant's recited incremental-position-change signal and index signal are structurally different from the single signal line 6-4 disclosed by Ohno, and provide a functional advantage not seen by Ohno.

Thus, the Applicant respectfully asserts that Ohno does not disclose the elements recited, and that the §102 rejection of Claim 35 is therefore improper. Accordingly, the Applicant respectfully requests that the §102 rejection of Claim 35 be removed, and that Claim 35 be allowed to issue, as amended.

The §103 Rejections

The Applicant submits that the Office has failed to establish a *prima facie* case of obviousness and, in view of the comments below, respectfully traverses the Office's rejections. However, before discussing the substance of the Office's rejections, a section entitled "The §103 Standard" is provided and will be used in addressing the Office's rejections.

The §103 Standard

To establish a *prima facie* case of obviousness, three basic criteria *must* be met. MPEP § 2142. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of

LEE & HAYES, PLLC 23

ordinary skill in the art, to modify the reference or to combine reference teachings. In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992); In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988). Second, there must be a reasonable expectation of success. In re Merck & Co., Inc., 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. In re Royka, 490 F.2d 981, 180 USPQ 580 (CCPA 1974).

Hence, when patentability turns on the question of obviousness, the search for, and analysis of, the prior art includes evidence relevant to the finding of whether there is a teaching, motivation, or suggestion to select and combine or modify the references relied on as evidence of obviousness. The need for specificity pervades this authority. See, e.g., *In re Kotzab*, 217 F.3d 1365, 1371, 55 USPQ2d 1313, 1317 (Fed. Cir. 2000) ("particular findings must be made as to the reason the skilled artisan, with no knowledge of the claimed invention, would have selected these components for combination in the manner claimed").

Traversal of the §103 Rejections

Claims 6, 11—13 and 19 stand rejected under 35 U.S.C. §103(a) as being obvious over Ohno. In response, the Applicant respectfully traverses the rejection.

Claims 6, 11—13 and 19 depend from Claims 1, 7 and 14 and are allowable due to their dependence from an allowable base claim. These claims are also allowable for their own recited features that, in combination with those recited in Claim 14, are neither disclosed nor suggested in references of record, either singly or in combination with one another.

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Claims 20—33 stand rejected under 35 U.S.C. §103(a) as being obvious over Ohno in view of US patent 6,155,669, hereinafter "Donahue." In response, the Applicant respectfully traverses the rejection.

Claim 20 recites a printing device having an encoding system for determining position and position changes of a recording medium conveyor to determine the position of a recording medium placed on the conveyor, comprising:

- a sequence of encoder marks forming incremental patterns and at least one index pattern, wherein two subsequent incremental patterns are indicative of an incremental position-change of the conveyor and the index pattern is indicative of a reference position of the conveyor;
- a sensor arrangement viewing a section of the encoder-mark sequence, the length of which is greater than one position-change increment; and
- an analyzer arranged to analyze an encoder-mark pattern in the viewed section with regard to the incremental patterns and the index pattern and to generate, in response to a pattern match found, an incrementalposition-change signal and an index signal.

The Applicant notes that Donahue was not cited for its disclosure, teachings or suggestion of an incremental-position-change signal and an index signal. Additionally, a search of the specification and drawings of Donahue does not reveal disclosure, teaching or suggestion of either of the two aforementioned signals. Accordingly, Donahue fails to remedy the failings of Ohno, who, it has been shown, does not disclose, teach or suggest the creation of, or use of, an incremental-position-change signal *and* an index signal.

The Patent Office has cited Donahue for its disclosure of a page width printer with plural print stations for the respective colors where each print station includes its own code reader. The Patent Office has not cited Donahue as disclosing, teaching or suggesting an incremental-position-change signal and an index signal.

Without addressing the validity of the reason that the Patent Office cited the Donahue reference, the Applicant notes that Donahue fails to disclose, teach or suggest (1) an incremental-position-change signal; and (2) an index signal. Having failed to do so, Donahue fails to remedy the failings of Ohno.

Accordingly, the Applicant respectfully requests that the §103(a) rejection of Claim 20 by removed, and that Claim 20 be allowed to issue.

Claims 21—24 depend from Claim 20 and are allowable due to their dependence from an allowable base claim. These claims are also allowable for their own recited features that, in combination with those recited in Claim 20, are neither disclosed nor suggested in references of record, either singly or in combination with one another.

Claim 25 recites a printing device having an encoding system for determining position and position changes of a recording medium conveyor to determine the position of a recording medium placed on the conveyor, comprising:

- a row of encoder marks arranged along the conveyor in a generally regular manner to provide incremental position-change information;
- at least one index marking in the form of a predefined pattern of encoder marks which represents a disturbance of the regular encoder-mark arrangement;
- a sensor arrangement viewing a section of the row of encoder marks and arranged to provide a viewed pattern of the encoder-mark section;
- an analyzer arranged to analyze the viewed pattern to generate incremental-position-change signals on the basis of the encoder marks and an index signal in response to a detection of the predefined index mark pattern,
- wherein the incremental-position-change signals are enabled to be generated also in that section of the encoder-mark row in which the regular en-coder-mark arrangement is disturbed by the index marking.

The Applicant notes that Donahue was not cited for its disclosure, teachings or suggestion of an incremental-position-change signal and an index signal. Additionally, a search of the specification and drawings of Donahue does not reveal disclosure, teaching or suggestion of either of the two aforementioned signals. Accordingly, Donahue fails to remedy the failings of Ohno, who, it has been shown, does not disclose, teach or suggest the creation of, or use of, an incremental-position-change signal *and* an index signal.

The Patent Office has cited Donahue for its disclosure of a page width printer with plural print stations for the respective colors where each print station includes its own code reader. The Patent Office has not cited Donahue as disclosing, teaching or suggesting an incremental-position-change signal and an index signal.

Without addressing the validity of the reason that the Patent Office cited the Donahue reference, the Applicant notes that Donahue fails to disclose, teach or suggest (1) an incremental-position-change signal; and (2) an index signal. Having failed to do so, Donahue fails to remedy the failings of Ohno.

Accordingly, the Applicant respectfully requests that the §103(a) rejection of Claim 25 by removed, and that Claim 25 be allowed to issue.

Claims 26—28 depend from Claim 25 and are allowable due to their dependence from an allowable base claim. These claims are also allowable for their own recited features that, in combination with those recited in Claim 25, are neither disclosed nor suggested in references of record, either singly or in combination with one another.

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Claim 29 recites a printing device having an encoding system for determining position and position changes of a recording medium conveyor to determine the position of a recording medium placed on the conveyor, comprising:

- a row of identical encoder marks forming incremental patterns and at least one index pattern, wherein two subsequent incremental patterns are indicative of an incremental position-change of the conveyor and the index pattern is indicative of a reference position of the conveyor;
- a sensor arrangement detecting a pattern of a section of the encodermark row; and
- an analyzer arranged to analyze the detected encoder-mark pattern with regard to the incremental patterns and the index pattern and to generate, in response to an incremental-pattern match found, an incrementalposition-change signal and, in response to an index-pattern match found, an index signal.

The Applicant notes that Donahue was not cited for its disclosure, teachings or suggestion of an incremental-position-change signal and an index signal. Additionally, a search of the specification and drawings of Donahue does not reveal disclosure, teaching or suggestion of either of the two aforementioned signals. Accordingly, Donahue fails to remedy the failings of Ohno, who, it has been shown, does not disclose, teach or suggest the creation of, or use of, an incremental-position-change signal *and* an index signal.

The Patent Office has cited Donahue for its disclosure of a page width printer with plural print stations for the respective colors where each print station includes its own code reader. The Patent Office has not cited Donahue as disclosing, teaching or suggesting an incremental-position-change signal and an index signal.

Without addressing the validity of the reason that the Patent Office cited the Donahue reference, the Applicant notes that Donahue fails to disclose, teach or

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suggest (1) an incremental-position-change signal; and (2) an index signal. Having failed to do so, Donahue fails to remedy the failings of Ohno.

Accordingly, the Applicant respectfully requests that the §103(a) rejection of Claim 29 by removed, and that Claim 29 be allowed to issue.

Claims 30—33 depend from Claim 29 and are allowable due to their dependence from an allowable base claim. These claims are also allowable for their own recited features that, in combination with those recited in Claim 29, are neither disclosed nor suggested in references of record, either singly or in combination with one another.

Conclusion

The Applicant submits that all of the claims are in condition for allowance and respectfully requests that a Notice of Allowability be issued. If the Office's next anticipated action is not the issuance of a Notice of Allowability, the Applicant respectfully requests that the undersigned attorney be contacted for the purpose of scheduling an interview.

Respectfully Submitted,

Dated: 12-02-2005

By:

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